## INTERNATIONAL SEARCH REPORT

Internal al Application No PCT/US 98/05543

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H01J9/02 H01J1/30								
According to International Patent Classification (IPC) or to both national classification and IPC								
	B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)  IPC 6 H01J								
Documenta	lion searched other than minimum documentation to the extent that s	such documents are included in the fields sea	arched					
Electronic d	ata base consulted during the international search (name of data ba	ase and, where practical, search terms used						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.					
А	US 5 047 313 A (NEBE WILLIAM J September 1991 cited in the application see claim 1	ET AL) 10	4,5					
Α	US 4 752 531 A (STEINBERG JERRY 1988 cited in the application see claims 1-3	I) 21 June	7					
Α	US 5 496 200 A (YANG MING-TZONG March 1996 see claim 1	ET AL) 5	1					
A	EP O 742 572 A (DU PONT) 13 Nove see claim 1	mber 1996	1					
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Y Further documents are listed in the continuation of box C.    Patent family members are listed in annex.								
* Special car	tegories of cited documents :	"T" later document published after the inter	rnational filing date					
	int defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	the application but					
"E" earlier d	locument but published on or after the international ate	"X" document of particular relevance; the c						
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the						
"O" docume other n	ent referring to an oral disclosure, use, exhibition or neans	document is combined with one or mo ments, such combination being obvious						
"P" docume later th	nt published prior to the international filing date but an the priority date claimed	in the art. "&" document member of the same patent family						
Date of the actual completion of theinternational search  Date of mailing of the international search report								
11 June 1998 22/06/1998								
Name and m	nailing address of the ISA	Authorized officer						
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Van den Bulcke, E						

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## INTERNATIONAL SEARCH REPORT

Intern: al Application No
PCT/US 98/05543

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	15.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Р,А	EP 0 828 291 A (DELCO ELECTRONICS CORP) 11 March 1998 see claim 1	1
A	EP 0 742 585 A (DU PONT) 13 November 1996 see claim 1	1
A	WO 94 18694 A (SILICON VIDEO CORP) 18 August 1994 see claims 27-31	1,7
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į		

1

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. .al Application No PCT/US 98/05543

	2023601 A	15-08-1995
EP JP JP JP	69021463 D 69021463 T 0414168 A 2095276 C 3205462 A	22-02-1991 27-03-1991 14-09-1995 22-02-1996 27-02-1991 02-10-1996 06-09-1991 17-01-1996
US 4752531 A 21-06-1988 US CA CN DK EP JP JP JP JP KR	1278182 A 1006424 B 135086 A,B, 0196035 A 1960875 C 6097565 B 61220203 A	31-03-1987 27-12-1990 10-01-1990 26-09-1986 01-10-1986 10-08-1995 30-11-1994 30-09-1986 18-06-1994
US 5496200 A 05-03-1996 NONE		
EP 0742572 A 13-11-1996 CN EP JP KR US	0613166 A 7021916 A 9704905 B	07-09-1994 31-08-1994 24-01-1995 08-04-1997 31-01-1995
EP 0828291 A 11-03-1998 JP	10098131 A	14-04-1998
EP 0742585 A 13-11-1996 CN JP SG	8302044 A	11-12-1996 19-11-1996 17-10-1997
WO 9418694 A 18-08-1994 US US AU EP JP US	5477105 A 6163494 A 0683920 A 8508846 T	31-12-1996 19-12-1995 29-08-1994 29-11-1995 17-09-1996 02-07-1996

## INTERNAT. NAL SEARCH REPORT

information on patent family members

Intern. (al Application No PCT/US 98/05543

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9418694 A		US 5742117 A US 5675212 A US 5667418 A US 5576596 A US 5725787 A US 5614781 A US 5746635 A	21-04-1998 07-10-1997 16-09-1997 19-11-1996 10-03-1998 25-03-1997 05-05-1998